

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/974,973A

DATE: 08/29/2003 TIME: 14:45:48

Input Set : A:\subseqlist 1533_1230001.txt
Output Set: N:\CRF4\08292003\I974973A.raw

39 <211> LENGTH: 3474 41 <212> TYPE: DNA 43 <213> ORGANISM: Corynebacterium glutamicum 47 <220> FEATURE: 49 <221> NAME/KEY: CDS 51 <222> LOCATION: (1)(3474) 55 <400> SEQUENCE: 1 56 gtg act gct atc acc ctt ggc ggt ctc ttg ttg aaa gga ata att act 57 Met Thr Ala Ile Thr Leu Gly Gly Leu Leu Leu Lys Gly Ile Ile Thr 58 1
Corynebacterium glutamicum ## Cor
47 <220> FEATURE: 49 <221> NAME/KEY: CDS 51 <222> LOCATION: (1)(3474) 55 <400> SEQUENCE: 1 56 gtg act gct atc acc ctt ggc ggt ctc ttg ttg aaa gga ata att act 57 Met Thr Ala Ile Thr Leu Gly Gly Leu Leu Leu Lys Gly Ile Ile Thr 58 1
49 <221> NAME/KEY: CDS 51 <222> LOCATION: (1)(3474) 55 <400> SEQUENCE: 1 56 gtg act gct atc acc ctt ggc ggt ctc ttg ttg aaa gga ata att act 48 57 Met Thr Ala Ile Thr Leu Gly Gly Leu Leu Leu Lys Gly Ile Ile Thr 58 l 5 l0 15 l0 15 60 cta gtg tcg act cac aca tct tca acg ctt cca gca ttc aaa aag atc 96 61 Leu Val Ser Thr His Thr Ser Ser Thr Leu Pro Ala Phe Lys Lys Ile 62 20 25 30 64 ttg gta gca aac cgc ggc gaa atc gcg gtc cgt gct ttc cgt gca gca 144 65 Leu Val Ala Asn Arg Gly Glu Ile Ala Val Arg Ala Phe Arg Ala Ala 66 35 40 45 68 ctc gaa acc ggt gca gcc acg gta gct att tac ccc cgt gaa gat cgg 192 69 Leu Glu Thr Gly Ala Ala Thr Val Ala Ile Tyr Pro Arg Glu Asp Arg 70 50 55 60
51 <222> LOCATION: (1)(3474) 55 <400> SEQUENCE: 1 56 gtg act gct atc acc ctt ggc ggt ctc ttg ttg aaa gga ata att act 48 57 Met Thr Ala Ile Thr Leu Gly Gly Leu Leu Leu Lys Gly Ile Ile Thr 58 l 5 1 5 10 15 60 cta gtg tcg act cac aca tct tca acg ctt cca gca ttc aaa aag atc 96 61 Leu Val Ser Thr His Thr Ser Ser Thr Leu Pro Ala Phe Lys Lys Ile 62 20 25 30 64 ttg gta gca aac cgc ggc gaa atc gcg gtc cgt gct ttc cgt gca gca 144 65 Leu Val Ala Asn Arg Gly Glu Ile Ala Val Arg Ala Phe Arg Ala Ala 66 35 40 45 68 ctc gaa acc ggt gca gcc acg gta gct att tac ccc cgt gaa gat cgg 70 50 55 60
55 <400> SEQUENCE: 1 56 gtg act gct atc acc ctt ggc ggt ctc ttg ttg aaa gga ata att act 48 57 Met Thr Ala Ile Thr Leu Gly Gly Leu Leu Leu Lys Gly Ile Ile Thr 58 1
56 gtg act gct atc acc ctt ggc ggt ctc ttg ttg aaa gga ata att act 57 Met Thr Ala Ile Thr Leu Gly Gly Leu Leu Leu Lys Gly Ile Ile Thr 58 1
57 Met Thr Ala Ile Thr Leu Gly Gly Leu Leu Lys Gly Ile Ile Thr 58 1
58 1 5 10 15 60 cta gtg tcg act cac aca tct tca acg ctt cca gca ttc aaa aag atc 96 61 Leu Val Ser Thr His Thr Ser Ser Thr Leu Pro Ala Phe Lys Lys Ile 20 25 30 64 ttg gta gca aac cgc ggc gaa atc gcg gtc cgt gct ttc cgt gca gca 144 65 Leu Val Ala Asn Arg Gly Glu Ile Ala Val Arg Ala Phe Arg Ala Ala 66 35 40 45 68 ctc gaa acc ggt gca gcc acg gta gct att tac ccc cgt gaa gat cgg 192 69 Leu Glu Thr Gly Ala Ala Thr Val Ala Ile Tyr Pro Arg Glu Asp Arg 70 50 55 60
61 Leu Val Ser Thr His Thr Ser Ser Thr Leu Pro Ala Phe Lys Lys Ile 62
62 20 25 30 64 ttg gta gca aac cgc ggc gaa atc gcg gtc cgt gct ttc cgt gca gca 144 65 Leu Val Ala Asn Arg Gly Glu Ile Ala Val Arg Ala Phe Arg Ala Ala 66 35 40 45 68 ctc gaa acc ggt gca gcc acg gta gct att tac ccc cgt gaa gat cgg 69 Leu Glu Thr Gly Ala Ala Thr Val Ala Ile Tyr Pro Arg Glu Asp Arg 70 50 55 60
64 ttg gta gca aac cgc ggc gaa atc gcg gtc cgt gct ttc cgt gca gca 144 65 Leu Val Ala Asn Arg Gly Glu Ile Ala Val Arg Ala Phe Arg Ala Ala 66 35 40 45 68 ctc gaa acc ggt gca gcc acg gta gct att tac ccc cgt gaa gat cgg 192 69 Leu Glu Thr Gly Ala Ala Thr Val Ala Ile Tyr Pro Arg Glu Asp Arg 70 50 55 60
65 Leu Val Ala Asn Arg Gly Glu Ile Ala Val Arg Ala Phe Arg Ala Ala 66 35 40 45 68 ctc gaa acc ggt gca gcc acg gta gct att tac ccc cgt gaa gat cgg 192 69 Leu Glu Thr Gly Ala Ala Thr Val Ala Ile Tyr Pro Arg Glu Asp Arg 70 50 55 60
66 35 40 45 68 ctc gaa acc ggt gca gcc acg gta gct att tac ccc cgt gaa gat cgg 192 69 Leu Glu Thr Gly Ala Ala Thr Val Ala Ile Tyr Pro Arg Glu Asp Arg 70 50 55 60
68 ctc gaa acc ggt gca gcc acg gta gct att tac ccc cgt gaa gat cgg 192 69 Leu Glu Thr Gly Ala Ala Thr Val Ala Ile Tyr Pro Arg Glu Asp Arg 70 50 55 60
69 Leu Glu Thr Gly Ala Ala Thr Val Ala Ile Tyr Pro Arg Glu Asp Arg 70 50 55 60
70 50 55 60
72 gga tca ttc cac cgc tct ttt gct tct gaa gct gto cgc att ggt act
ggm dam dad dad dad dad dad god doo guu god glo ggo dgo all ggl act 240
73 Gly Ser Phe His Arg Ser Phe Ala Ser Glu Ala Val Arg Ile Gly Thr
74 65 70 75 80
76 gaa ggc tca cca gtc aag gcg tac ctg gac atc gat gaa att atc ggt 288
77 Glu Gly Ser Pro Val Lys Ala Tyr Leu Asp Ile Asp Glu Ile Ile Gly
78 85 90 95
80 gca gct aaa aaa gtt aaa gca gat gct att tac ccg gga tat ggc ttc 336 81 Ala Ala Lys Lys Val Lys Ala Asp Ala Ile Tyr Pro Gly Tyr Gly Phe
82 100 105 110
84 ctg tct gaa aat gcc cag ctt gcc cgc gag tgc gcg gaa aac ggc att 384
85 Leu Ser Glu Asn Ala Gln Leu Ala Arg Glu Cys Ala Glu Asn Gly Ile
86 115 120 125
88 act ttt att ggc cca acc cca gag gtt ctt gat ctc acc ggt gat aag 432 .
89 Thr Phe Ile Gly Pro Thr Pro Glu Val Leu Asp Leu Thr Gly Asp Lys

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90 130 135 140	
92 tot cgt gcg gta acc gcc gcg aag aag gct ggt ctg cca gtt ttg gcg	480
93 Ser Arg Ala Val Thr Ala Ala Lys Lys Ala Gly Leu Pro Val Leu Ala	
94 145 150 [°] 155 160	
96 gaa too acc cog ago aaa aac atc gat gac atc gtt aaa ago got gaa	528
97 Glu Ser Thr Pro Ser Lys Asn Ile Asp Asp Ile Val Lys Ser Ala Glu	
98 165 170 175	
100 ggc cag act tac ccc atc ttt gta aag gca gtt gcc ggt ggc gga	576
101 Gly Gln Thr Tyr Pro Ile Phe Val Lys Ala Val Ala Gly Gly Gly 102 180 185 190	
102 180 185 190 104 cgc ggt atg cgc ttt gtt tct tca cct gat gag ctc cgc aaa ttg gca	624
105 Arg Gly Met Arg Phe Val Ser Ser Pro Asp Glu Leu Arg Lys Leu Ala	024
106 195 200 205	
108 aca gaa gca tot ogt gaa got gaa gog gca tto ggc gac ggt tog gta	672
109 Thr Glu Ala Ser Arg Glu Ala Glu Ala Ala Phe Gly Asp Gly Ser Val	
110 210 215 220	
112 tat gtc gaa cgt gct gtg att aac ccc cag cac att gaa gtg cag atc	720
113 Tyr Val Glu Arg Ala Val Ile Asn Pro Gln His Ile Glu Val Gln Ile	
114 225 230 235 240	
116 ctt ggc gat cgc act gga gaa gtt gta cac ctt tat gaa cgt gac tgc	768
117 Leu Gly Asp Arg Thr Gly Glu Val Val His Leu Tyr Glu Arg Asp Cys	
118 245 250 255	
120 tca ctg cag cgt cgt cac caa aaa gtt gtc gaa att gcg cca gca cag	816
121 Ser Leu Gln Arg Arg His Gln Lys Val Val Glu Ile Ala Pro Ala Gln	
122 260 265 270	
124 cat ttg gat cca gaa ctg cgt gat cgc att tgt gcg gat gca gta aag	864
125 His Leu Asp Pro Glu Leu Arg Asp Arg Ile Cys Ala Asp Ala Val Lys 126 275 280 285	
126 275 280 285 128 ttc tgc cgc tcc att ggt tac cag ggc gcg gga acc gtg gaa ttc ttg	912
129 Phe Cys Arg Ser Ile Gly Tyr Gln Gly Ala Gly Thr Val Glu Phe Leu	912
130 290 295 300	
132 gtc gat gaa aag ggc aac cac gtt ttc atc gaa atg aac cca cgt atc	960
133 Val Asp Glu Lys Gly Asn His Val Phe Ile Glu Met Asn Pro Arg Ile	
134 305 310 315 320	
136 cag gtt gag cac acc gtg act gaa gaa gtc acc gag gtg gac ctg gtg	1008
137 Gln Val Glu His Thr Val Thr Glu Glu Val Thr Glu Val Asp Leu Val	
138 325 330 335	
140 aag gcg cag atg cgc ttg gct gct ggt gca acc ttg aag gaa ttg ggt	1056
141 Lys Ala Gln Met Arg Leu Ala Ala Gly Ala Thr Leu Lys Glu Leu Gly	
142 340 345 350	
144 ctg acc caa gat aag atc aag acc cac ggt gca gca ctg cag tgc cgc	1104
145 Leu Thr Gln Asp Lys Ile Lys Thr His Gly Ala Ala Leu Gln Cys Arg	
146 355 360 . 365	1150
148 atc acc acg gaa gat cca aac aac ggc ttc cgc cca gat acc gga act 149 Ile Thr Thr Glu Asp Pro Asn Asn Gly Phe Arg Pro Asp Thr Gly Thr	1152
150 370 375 380	
150 370 370 370 370 370 370 370 370 370 37	1200
153 Ile Thr Ala Tyr Arg Ser Pro Gly Gly Ala Gly Val Arg Leu Asp Gly	1200
154 385 390 395 400	

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156	gca	gct	cag	ctc	ggt	ggc	gaa	ato	acc	gca	cac	ttt	gac	tcc	atg	ctg	1248
		Ala	Gln	Leu			Glu	Ile	Thr	Ala	His	Phe	Asp	Ser	Met	Leu	
158					405					410					415		
. 160	gtg	aaa	atg	acc	tgc	cgt	ggt	tcc	gac	ttt	gaa	act	gct	gtt	gct	cgt	1296
		Lys	Met		Cys	Arg	Gly	Ser	Asp		Glu	Thr	Ala			Arg	
162				420					425					430			
164	gca	cag	cgc	gcg	ttg	gct	gag	ttc	acc	gtg	tct	ggt	gtt	gca	acc	aac	1344
166		GIII	435	Ата	ьeu	Ата	GIU		Thr	val	Ser	GLy		Ala	Thr	Asn	
		aat		++~	aat	~~~	++~	440	~~~	~~~			445				1200
169	Tlo	990 Clv	Dho	T.OII	Ara	λla	LLy	Lou	cgg Arg	Clu	gag	yac	Dho	mbo	Con	aag	1392
170		450		Dea	n. 9	niu	455	пец	AIG	GIU	GIU	460		1111	Ser	гуѕ	
				acc	σσα	ttt		aac	gat	cac	cca			ctt	can	act	1440
173	Arq	Ile	Ala	Thr	Glv	Phe	Ile	Glv	Asp	His	Pro	His	Len	Len	Gln	Δla	1440
	465				1	470		1			475		Deu	Dou	0111	480	
176	cca	cct	gcg	gat	gat	gag	caq	gga	cgc	atc		qat	tac	tta	σca		1488
177	Pro	Pro	Ala	Asp	Asp	Ğlu	Gln	Gly	Arg	Ile	Leu	Asp	Tyr	Leu	Ala	Asp	1100
178					485			_	_	490		-	•		495	- - -	
180	gtc	acc	gtg	aac	aag	cct	cat	ggt	gtg	cgt	cca	aag	gat	gtt	gca	gca	1536
181	Val	Thr	Val	Asn	Lys	Pro	His	Gly	Val	Arg	Pro	Lys	Asp	Val	Āla	Ala .	
182				500					505					510			
184	cca	atc	gat	aag	ctg	CCC	aac	atc	aag	gat	ctg	cca	ctg	cca	cgc	ggt	1584
	Pro	Ile		Lys	Leu	Pro	Asn		Lys	Asp	Leu	Pro		Pro	Arg	Gly	
186			515					520					525		•		
188	tcc	cgt	gac	cgc	ctg	aag	cag	ctt	ggc	cca	gcc	gcg	ttt	gct	cgt	gat	1632
190	ser	530	Asp	Arg	ьeu	гаг		ьeu	Gly	Pro	АТа		Phe	Ala	Arg	Asp	
	ctc		asa	C a C	a a c	44	535	~~~	gtt	2 a t	~~+	540					1.600
193	T.eu	Δra	Glu	Gln	Aen	yca	Lou	y Ca	Val	mb~	yaı	mb~	mb~	Dha	cgc	gat	1680
	545	111 9	O_Lu	OIII	пор	550	пси	лла	Val	TIII	555	1111	THI	Pile	AIG	560	
		cac	caσ	tct	t.t.a		aca	acc	cga	atc		tca	ttc	αca	cta		1728
197	Ala	His	Gln	Ser	Leu	Leu	Ala	Thr	Arg	Val	Ara	Ser	Phe	Ala	Len	Lvs	1/20
198					565		•		5	570	5				575	1,5	
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201	Pro	Ala	Ala	Glu	Ala	Val	Ala	Lys	Leu	Thr	Pro	Glu	Leu	Leu	Ser	Val	
202				580					585					590			
204	gag	gcc	tgg	ggc	ggc	gcg	acc	tac	gat	gtg	gcg	atg	cgt	ttc	ctc	ttt	1824
205	Glu	Ala	Trp	Gly	Gly	Ala	Thr		Asp	Val	Ala	Met	Arg	Phe	Leu	Phe	
206			595					600					605				
208	gag	gat	ccg	tgg	gac	agg	ctc	gac	gag	ctg	cgc	gag	gcg	atg	ccg	aat	1872
209	Glu	Asp	Pro	Trp	Asp	Arg	Leu	Asp	Glu	Leu	Arg		Ala	Met	Pro	Asn	
210	at a	610	~++	~~	a+~	a+ =	615					620					
212	y La	Acr	TIO	Cla	Mot	CLG	CLL	cgc	ggc	cgc	aac	acc	gtg	gga	tac	acc	1920
214	625	ASII	116	GIII	Met	630	Leu	Arg	Gly	Arg		Thr	vaı	GIY	туr		
		tac	cca	gac	tcc		tac	cac	gcg	+++	635	224	as s	ac+	acc	640	1060
217	Pro	Tyr	Pro	Asp	Ser	Val	Cvs	Ara	Ala	Phe	Val	Lve	Glu	y C L Ala	y CC	Sor	1968
218		- <u>, -</u>		F	645		-, 0	9	u	650		-ys	JIU	пта	655	261	
	tcc	ggc	gtg	gac		ttc	cqc	atc	ttc			ct.t	aac	gac		tcc	2016
				-							5-5			5-0	5 00		2010

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221 222	Ser	Gly	Val	Asp 660		Phe	Arg	Ile	Phe 665	Asp	Ala	Leu	Asn	Asp 670	Val	Ser		
224	cag	atg	cat	cca	αca	atc	gac	gca	atc	cta	gag	acc	aac	acc	aca	αta		2064
	Gln																	2004
226		1100	675	110		110	TIDP	680	var	пец	Gru	1111	685	1111	AIG	Vai		
		~~~		~a+	- + -	~~+	+-+											0110
220	gcc	yay 21	y Ly	31-	aly	901	Lat	LCL	ggt	gat	CEC	tct	gat	cca -	aat	gaa		2112
	Ala			Ата	мет	Ата		ser	GIY	Asp	Leu		Asp	Pro	Asn	GLu		
230		690					695					700						
	aag																	2160
233	Lys	Leu	${ t Tyr}$	Thr	Leu	Asp	Tyr	Tyr	Leu	Lys	Met	Ala	Glu	Glu	Ile	Val		
234	705					710					715					720		
236	aag	tct	ggc	gct	cac	att	ctg	gcc	att	aag	gat	atg	gct	ggt	ctq	ctt		2208
	Lys																	
238			_		725					730					735	-:-		
	cgc	cca	act	aca	αta	acc	ааσ	cta	atc		aca	cta	cac	cat		ttc		2256
241	Arg	Pro	Δla	Δla	Val	Thr	Lve	T.eu	Val	Thr	λla	Len	Δra	Ara	Glu	Dho		2230
242		110		740	, uı	1111	цуз	ncu	745	1111	Ата	пец	лгу	750	GIU	FIIE		
		a+a	003		020	a+a	~~~											0004
244	gat	Tan	Dma	y Ly	Uac	y Ly	Cac	acc	Cac	yac	act	geg	991	ggc	cag	ttg -		2304
	Asp	ьeu		vai	HIS	Val	HIS		HIS	ASP	Thr	Ата		GLY	GIn	Leu		
246			755					760					765					
248	gct	acc	tac	ttt	gct	gca	gct	caa	gct	ggt	gca	gat	gct	gtt	gac	ggt		2352
	Ala		${ t Tyr}$	Phe	Ala	Ala	Ala	Gln	Ala	Gly	Ala	Asp	Ala	Val	Asp	Gly		
250		770					775					780						
	gct																	2400
253	Ala	Ser	Ala	Pro	Leu	Ser	Gly	Thr	${ t Thr}$	Ser	Gln	Pro	Ser	Leu	Ser	Ala		
254	785					790					795					800		
256	att	gtt	gct	gca	ttc	gcg	cac	acc	cqt	cqc	qat	acc	aat	tta	agc	ctc		2448
257	Ile	Val	Ala	Ala	Phe	Ala	His	Thr	Arq	Arq	Asp	Thr	ĞÎv	Leu	Ser	Leu		
258					805				,	810			1		815			
260	gag	qct	att	tct	qac	ctc	σασ	cca	tac	t.aa	αаа	act	ata	cac		ctá		2496
261	Glu	Ala	Val	Ser	Asp	Leu	Glu	Pro	Tyr	Trn	Glu	Δla	Val	Δra	Glv	Len		2470
262				820	p		Olu	110	825	115	Olu	niu	vui	830	GIY	пеп		
	tac	cta	CCa		asa	tat	aas	200		~~~	000	222	~~+					2544
265	Tttr	Tou	Dro	Dho	Clu	Com	gya	mb	Des	990	Door	acc	991	ege	gre	cac		2544
266	Tyr	пеп	835	rne	GIU	ser	СТА		PIO	GIY	PIO	Thr	_	Arg	vaı	Tyr		
		~~~		_+_				840					845					
200	cgc	Cac	gaa	alc	cca	ggc	gga	cag	ttg	tcc	aac	ctg	cgt	gca	cag	gcc		2592
269	Arg		GLU	шe	Pro	GTĀ		GIn	Leu	Ser	Asn		Arg	Ala	Gln	Ala		
270		850					855					860						
272	acc	gca	ctg	ggc	ctt	gct	gat	cgc	ttc	gag	ctc	atc	gaa	gac	aac	tac	:	2640
	Thr	Ala	Leu	Gly	Leu	Ala	Asp	Arg	Phe	Glu	Leu	Ile	Glu	Asp	Asn	${ t Tyr}$		
	865					870					875					880		
276	gca	gcc	gtt	aat	gag	atg	ctg	gga	cgc	cca	acc	aag	gtc	acc	cca	tcc		2688
277	Ala	Ala	Val	Asn	Glu	Met	Leu	Gly	Arq	Pro	Thr	Lys	Val	Thr	Pro	Ser		
278					885			•	-	890		-			895	_		
280	tcc	aaq	gtt	gtt		qac	ctc	qca	ctc		cta	att	aat.	aca		qta		2736
281	Ser	Lys	val	val	Ğĺv	Āsp	Leu	Ăla	Leu	His	Leu	Va 1	Glv	Ala	Glv	Val		
282				900	1	F			905		~		1	910	1	, u.i.		
	gat	cca	gca		+++	act	σca	gac		саа	ааσ	tac	αac		002	asc.		2784
285	Asp	Pro	Δla	Agn	Dho	Δla	Δla) an	Dro	Gln	Lug	TT-T-) ac	T12	Dro	Age	-	4 / 04
	5P	0	u	P	- 11C	пта	пта	ush	LIO	GTII	пХЭ	тАт	ASP	тте	LIO	ASP		

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286			915					920					ç	925					
	tct	atc	atc	aca	ttc	cta	cac	-	gag	ctt	σο	rt a	ac c	cct	cca	a gg	t a	ac	2832
			Ile																
290		930					935	_				-	40			-	•	•	
292	tgg	cca	gaa	cca	ctq	cqc	acc	cqc	qca	ctq	qa	aa q	qc c	gc	tco	c qaa	a q	qc	2880
			Ğlu																
	945			_	-	950		,			95		4	,				60	
296	aaσ	σca	cct	cta	acq	gaa	att	cct	gag	σaa	αa	ag c	ag c	ıca	cad	cto	e q	ac	2928
			Pro																
298	1				965					970						97			
	act	gat	gat	tcc		σaa	cat	cac	aac	age	ct	.c a	ac c	ac	cto	a cto	r t	tc	2976
	_	-	Asp		_	_	_	_		_				_		-	_		
302				980	-1-				985						990				
	cca	aaq	cca		gaa	gag	ttc	ctc		т са	СС	eat	cac	ca		-	aac	aac	3024
			Pro																
306		-1-	995					1000				5	5	10	_		1		
	acc	tct	gcg	cto	r gat	gat	cat	. qa	a ti	tc t	tc	tac	gga	1	cta	atc	σa	ì	3069
			Ala																
310		1010					101					_1_	102						
	aac	cqc		act	: t.t.o	ato			a co	са σ	at.	at.a			acc	cca	cto	7	3114
		-	Glu		_		_		_	_			_			Pro		-	
314	1	1025					103		-				103	-				_	
	ctt		cgc	cto	r dat	. aca			et da	ag c	са	gac	σat		ааσ	ggt	ato	τ .	3159
			Arg						er Gl						-	Gly		-	0_0,
318		1040	-				104					L	105		-1-	1		_	
	cac		gtt	ato	r acc	aac			ic ac	ic c	aσ	atc		-	cca	atg	cat	t.	3204
	_		Val		_		-				_		_			Met	_		
322	,	1055					106						106					,	
324	gtg	cqt	gad	cqc	tcc	gtt	qaq	r to	et at	c a	сc	qca	acc	, (qca	gaa	aad	a	3249
		_	Āsp						er Va			-			_	Ğlu			
326		1070	_	_			107						108				-		
328	qca	gat	tcc	tcc	aac	aaq	qqc	: ca	ıt qt	t q	ct	qca	сса	ı .	ttc	qct	qq1	t	3294
			Ser													Ãla			
330		1085				_	109						109				-		
332	gtt	qtc	act	gtq	act	gtt	gct	. qa	a go	ıt q	at	gag	qto	: 8	aaq	gct	qqa	a	3339
	-	Val				Val									-	Ăla			
334		1100			,		110			-	-		111		-		_	•	
336	gat	gca	gto	gca	ato	atc	gag	go	t at	ga	ag	atg	gaa	1 (qca	aca	ato	2	3384
			Val												Ala	Thr	Ile	<u> </u>	
338		1115	,				112	0					112	25					
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			Ser																
342		1130					113						114						
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346		1145	_				115						115						
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353	<212	?> TY	PE:	PRT															